## AMENDMENTS TO THE CLAIMS

(Currently Amended) A machine-implemented method, comprising:
 creating, by an operating system, within a global operating system environment
provided by an operating system, a non global partition which a plurality of non-global
operating system partitions within a global operating system environment provided by the
operating system, wherein each non-global operating system partition serves to isolate
processes running within that non-global operating system partition from other nonglobal operating system partitions within the global operating system environment,
wherein enforcement of boundaries between the non-global operating system partitions is
carried out by the operating system, and wherein the plurality of non-global operating
system partitions comprises a particular non-global operating system partition;

maintaining a file system for the <u>particular</u> non-global <u>operating system</u> partition, the file system comprising one or more mounts:

receiving a request from a process running within the <u>particular</u> non-global operating system partition to view information for mounts:

determining that the process is running within the <u>particular</u> non-global <u>operating</u> <u>system</u> partition; and

providing to the process information for only those mounts that are within the file system for the <u>particular</u> non-global <u>operating system</u> partition.

 (Currently Amended) The method of claim 1, wherein the file system for the <u>particular</u> non-global <u>operating system</u> is part of an overall file system maintained for the global operating system environment, and wherein the overall file system comprises one or more other mounts that are not within the file system for the <u>particular</u> non-global <u>operating system</u> partition.

 (Currently Amended) The method of claim 1, wherein maintaining comprises:

associating the one or more mounts with the <u>particular</u> non-global <u>operating</u> system partition.

4. (Currently Amended) The method of claim 3, wherein the <u>particular</u> nonglobal <u>operating system</u> partition has a mount data tracking structure associated therewith, and wherein associating comprises:

adding entries corresponding to the one or more mounts to the mount data tracking structure associated with the particular non-global operating system partition.

- (Currently Amended) The method of claim 4, wherein the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition comprises a linked list of mount entries.
- (Currently Amended) The method of claim 4, wherein providing comprises:

accessing the mount data tracking structure associated with the  $\underline{particular}$  non-global  $\underline{operating\ system}$  partition; and

determining, based upon the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition, the one or more mounts within the file system for the particular non-global operating system partition.

7. (Currently Amended) The method of claim 1, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, and wherein providing comprises:

determining which mounts are within the file system for the <u>particular</u> non-global <u>operating system</u> partition by determining which mounts are under the root directory, or a subdirectory thereof.

 (Currently Amended) The method of claim 1, wherein maintaining eomprises:

establishing a root directory for the file system, and establishing the one or more mounts under the root directory, or a subdirectory thereof the operating system isolates the process within the particular non-global operating system partition by not allowing the process to access processes running in any other non-global operating system partition.

- (Currently Amended) The method of claim 1, wherein creating comprises assigning a unique identifier to the <u>particular</u> non-global <u>operating system</u> partition.
- 10. (Currently Amended) The method of claim 9, wherein determining comprises:

extracting, from a data structure associated with the process, a partition identifier; and

using the partition identifier to determine the <u>particular</u> non-global <u>operating</u> system partition.

11. (Currently Amended) The method of claim I, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, and wherein providing comprises:

indicating to the process that the root directory is one of the one or more mounts.

12. (Currently Amended) The method of claim 1, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, wherein the root directory has an associated path, wherein each of the one or more mounts is under the root directory, or a subdirectory thereof, and wherein providing comprises:

showing, to the process, each of the one or mounts without including the path to the root directory.

## 13. (Currently Amended) An apparatus, comprising:

a mechanism for creating, within a global operating system environment provided by an operating system, a non-global partition which implementing an operating system that creates a plurality of non-global operating system partitions within a global operating system environment provided by the operating system, wherein each non-global operating system partition serves to isolate processes running within that non-global operating system partition from other non-global operating system partitions within the global operating system environment, wherein enforcement of boundaries between the non-global operating system partitions is carried out by the operating system, and wherein the plurality of non-global operating system partitions comprises a particular non-global operating system partition;

a mechanism for maintaining a file system for the <u>particular</u> non-global <u>operating</u> system partition, the file system comprising one or more mounts;

a mechanism for receiving a request from a process running within the <u>particular</u> non-global operating system partition to view information for mounts;

a mechanism for determining that the process is running within the  $\underline{\text{particular}}$  non-global  $\underline{\text{operating system}}$  partition; and

a mechanism for providing to the process information for only those mounts that are within the file system for the <u>particular</u> non-global <u>operating system</u> partition.

- 14. (Currently Amended) The apparatus of claim 13, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition is part of an overall file system maintained for the global operating system environment, and wherein the overall file system comprises one or more other mounts that are not within the file system for the <u>particular</u> non-global <u>operating system</u> partition.
- (Currently Amended) The apparatus of claim 13, wherein the mechanism for maintaining comprises:

a mechanism for associating the one or more mounts with the <u>particular</u> nonglobal operating system partition.

16. (Currently Amended) The apparatus of claim 15, wherein the <u>particular</u> non-global <u>operating system</u> partition has a mount data tracking structure associated therewith, and wherein the mechanism for associating comprises:

a mechanism for adding entries corresponding to the one or more mounts to the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition.

- (Currently Amended) The apparatus of claim 16, wherein the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition comprises a linked list of mount entries.
- 18. (Currently Amended) The apparatus of claim 16, wherein the mechanism for providing comprises:

a mechanism for accessing the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition; and

a mechanism for determining, based upon the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition, the one or more mounts within the file system for the particular non-global operating system partition.

19. (Currently Amended) The apparatus of claim 13, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, and wherein the mechanism for providing comprises:

a mechanism for determining which mounts are within the file system for the <u>particular</u> non-global <u>operating system</u> partition by determining which mounts are under the root directory, or a subdirectory thereof.

 (Currently Amended) The apparatus of claim 13, wherein the mechanism for maintaining comprises:

a mechanism for establishing a root directory for the file system, and establishing the one or more mounts under the root directory, or a subdirectory thereof the operating system isolates the process within the particular non-global operating system partition by not allowing the process to access processes running in any other non-global operating system partition.

- 21. (Currently Amended) The apparatus of claim 13, wherein the mechanism for ereating implementing the operating system comprises a mechanism for assigning a unique identifier to the particular non-global operating system partition.
- (Currently Amended) The apparatus of claim 21, wherein the mechanism for determining comprises;

a mechanism for extracting, from a data structure associated with the process, a partition identifier; and a mechanism for using the partition identifier to determine the <u>particular</u> nonglobal operating system partition.

23. (Currently Amended) The apparatus of claim 13, wherein the file system for the <u>particular</u> non-global <u>operating system</u> has a root directory, and wherein the mechanism for providing comprises:

a mechanism for indicating to the process that the root directory is one of the one or more mounts.

24. (Currently Amended) The apparatus of claim 13, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, wherein the root directory has an associated path, wherein each of the one or more mounts is under the root directory, or a subdirectory thereof, and wherein the mechanism for providing comprises:

a mechanism for showing, to the process, each of the one or mounts without including the path to the root directory.

25. (Currently Amended) A machine-readable <u>storage</u> medium, comprising: instructions for causing one or more processors to ereate, within a global operating system environment provided by an operating system, a non global partition which implement an operating system that creates a plurality of non-global operating system partitions within a global operating system environment provided by the operating system, wherein each non-global operating system partition serves to isolate processes

running within that non-global operating system partition from other non-global operating system partitions within the global operating system environment, wherein enforcement of boundaries between the non-global operating system partitions is carried out by the operating system, and wherein the plurality of non-global operating system partitions comprises a particular non-global operating system partition;

instructions for causing one or more processors to maintain a file system for the <u>particular</u> non-global <u>operating system</u> partition, the file system comprising one or more mounts:

instructions for causing one or more processors to receive a request from a process running within the <u>particular</u> non-global <u>operating system</u> partition to view information for mounts;

instructions for causing one or more processors to determine that the process is running within the <u>particular</u> non-global <u>operating system</u> partition; and

instructions for causing one or more processors to provide to the process information for only those mounts that are within the file system for the <u>particular</u> non-global <u>operating system</u> partition.

26. (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the file system for the <u>particular</u> non-global <u>operating system</u> is part of an overall file system maintained for the global operating system environment, and wherein the overall file system comprises one or more other mounts that are not within the file system for the <u>particular</u> non-global operating system partition.

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27. (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the instructions for causing one or more processors to maintain comprises: instructions for causing one or more processors to associate the one or more

mounts with the particular non-global operating system partition.

28. (Currently Amended) The machine-readable <u>storage</u> medium of claim 27, wherein the <u>particular</u> non-global <u>operating system</u> partition has a mount data tracking structure associated therewith, and wherein the instructions for causing one or more processors to associate comprises:

instructions for causing one or more processors to add entries corresponding to the one or more mounts to the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition.

- 29. (Currently Amended) The machine-readable <u>storage</u> medium of claim 28, wherein the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition comprises a linked list of mount entries.
- 30. (Currently Amended) The machine-readable <u>storage</u> medium of claim 28, wherein the instructions for causing one or more processors to provide comprises:

instructions for causing one or more processors to access the mount data tracking structure associated with the particular non-global operating system partition; and

instructions for causing one or more processors to determine, based upon the mount data tracking structure associated with the <u>particular</u> non-global <u>operating system</u> partition, the one or more mounts within the file system for the <u>particular</u> non-global <u>operating system</u> partition.

31. (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, and wherein the instructions for causing one or more processors to provide comprises:

instructions for causing one or more processors to determine which mounts are within the file system for the <u>particular</u> non-global <u>operating system</u> partition by determining which mounts are under the root directory, or a subdirectory thereof.

 (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the <u>instructions for causing one or more processors to maintain comprises:</u>

instructions for causing one or more processors to establish a root directory for the file system, and to establish the one or more mounts under the root directory, or a subdirectory thereof the operating system isolates the process within the particular non-global operating system partition by not allowing the process to access processes running in any other non-global operating system partition.

 (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the instructions for causing one or more processors to <u>ereate implement the</u> operating system comprises instructions for causing one or more processors to assign a unique identifier to the <u>particular</u> non-global <u>operating system</u> partition.

 (Currently Amended) The machine-readable <u>storage</u> medium of claim 33, wherein the instructions for causing one or more processors to determine comprises;

instructions for causing one or more processors to extract, from a data structure associated with the process, a partition identifier; and

instructions for causing one or more processors to use the partition identifier to determine the <u>particular</u> non-global <u>operating system</u> partition.

35. (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, and wherein the instructions for causing one or more processors to provide comprises:

instructions for causing one or more processors to indicate to the process that the root directory is one of the one or more mounts.

36. (Currently Amended) The machine-readable <u>storage</u> medium of claim 25, wherein the file system for the <u>particular</u> non-global <u>operating system</u> partition has a root directory, wherein the root directory has an associated path, wherein each of the one or more mounts is under the root directory, or a subdirectory thereof, and wherein the instructions for causing one or more processors to provide comprises:

instructions for causing one or more processors to show, to the process, each of the one or mounts without including the path to the root directory.